AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A <u>computer implemented</u> system that facilitates specifying and utilizing hardware functionality, comprising:

a common hardware register pseudo-language, the language comprising a set of primitives; and

a specification component that specifies hardware functionality *via* the execution of a common hardware register pseudo-language, the language comprising a set of hardware register primitives that are defined for respective device classes, and provide a framework for the specification component to specify functionality of hardware.

- 2. (Original) The system of claim1, the set of primitives that are loaded prior to at least one of: boot-up and during initialization.
- 3. (Original) The system of claim 2, the set of primitives is concurrently loaded with an advanced configuration and power interface (ACPI) table.
- 4. (Original) The system of claim 1, further comprising a linking component that links instructions to effect a particular higher-level functionality.
- 5. (Original) The system of claim 4, at least one of the instructions is associated with a plurality of registers.
- 6. (Original) The system of claim 4, the instructions comprise primitive(s) and corresponding resources with respect to a particular action.

- 7. (Previously Presented) The system of claim 4, the instructions are unique dependent upon a vendor's proprietary hardware.
- 8. (Original) The system of claim 1, a subset of the primitives effects reading from a hardware register.
- 9. (Original) The system of claim 1, a subset of the primitives effects writing to a hardware register.
- 10. (Original) The system of claim 1, the set of primitives includes at least bit-masked reading from a hardware register.
- 11. (Original) The system of claim 1, the set of primitives includes at least bit-masked writing to a hardware register.
- 12. (Original) The system of claim 1, the pseudo-language is a complete set of possible operations that can be performed upon a generic hardware register.
- 13. (Original) The system of claim 1, further comprising a common driver that supports functionality of the hardware.
- 14. (Original) The system of claim 1, further comprising an artificial intelligence (AI) component that infers characteristics of a hardware device.
- 15. (Original) The system of claim 14, the AI component infers a series of instructions to perform a high level action.
- 16. (Original) The system of claim 15, the instructions comprise a primitive and resources to perform a primitive.

- 17. (Original) The system of claim 15, the AI component comprises an implicitly trained classifier.
- 18. (Original) The system of claim 15, the AI component performs a probabilistic-based utility analysis in connection with loading the set of primitives.
- 19. (Original) A method that specifies hardware functionality, comprising:
 determining a hardware device type; and
 loading a series of instructions prior to operating system kernel availability wherein the
 instructions comprise at least primitives that are defined by a common hardware register pseudolanguage.
- 20. (Original) The method of claim 19, loading an advanced configuration and power interface (ACPI) table concurrent with the instructions.
- 21. (Original) The method of claim 19, linking the series of instructions to effectuate a high level action.
- 22. (Original) The method of claim 21, performing the series of instructions upon at least one hardware register.
- 23. (Original) The method of claim 21, performing at least one instruction with more than one register.
- 24. (Original) The method of claim 19, inferring the series of instructions to perform a high level action with artificial intelligence.
- 25. (Original) A system specifying hardware functionality, comprising: means for specifying a hardware functionality; and means for linking instructions that comprise at least hardware register primitives, wherein the primitives are defined by a common hardware register pseudo-language.

- 26. (Original) The system of claim 25, further comprising means for concurrently loading the instructions with an advanced configuration and power interface (ACPI) table.
- 27. (Original) The system of claim 25, further comprising means for linking a subset of the instructions to effect a particular higher-level functionality.
- 28. (Original) The system of claim 25, further comprising means for associating at least one instruction with a plurality of registers.
- 29. (Original) The system of claim 25 further comprising means for describing the instruction as primitive operation(s) and corresponding resources with respect to a particular action.
- 30. (Original) The system of claim 25, further comprising means for inferring characteristics of a hardware device.
- 31. (Original) The system of claim 30, further comprising means for assembling the set of primitives.
- 32. (Original) The system of claim 30 further comprising means for performing a probabilistic-based utility analysis in connection with executing the set of instructions.
- 33. (Original) A computer readable medium having stored thereon the computer-executable component(s) of claim 1.
- 34. (Original) A computer readable medium having stored thereon the computer-executable instructions for implementing the method of claim 19.
- 35. (Original) A computer readable medium having stored thereon the system of claim 25.

36. (Cancelled)